

INTERNATIONAL SEARCH REPORT

PCT/US2005/041726

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D231/16 C07D231/12 C07D403/12 C07D487/08 C07D401/12
C07D405/12 C07D409/12 C07D413/12 C07D417/12 A61P29/00
A61K31/4155

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 409 231 A (STENZEL ET AL) 11 October 1983 (1983-10-11) column 1, line 9 - line 17 column 2, line 33 - line 55 column 3, line 5 - line 15 -----	1-4, 6, 8, 11, 12, 15-17, 21, 27-29, 38, 39, 50, 52-66
Y	WO 98/24785 A (FUJISAWA PHARMACEUTICAL CO., LTD; ITO, KIYOTAKA; SPEARS, GLEN, W; YAMA) 11 June 1998 (1998-06-11) *Compounds of formula Ic* page 4 page 1, paragraph 1 - paragraph 2; claims 1, 5-8 ----- -/--	1-66

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

10 May 2006

Date of mailing of the international search report

18/05/2006

Name and mailing address of the ISA/

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2004/058722 A (ARENA PHARM INC [US]; TEEGARDEN BRADLEY [US]; JAYAKUMAR HONNAPPA [US];) 15 July 2004 (2004-07-15) claims 1,27,28,38-89; compounds 70,71,76,77 -----	1-66
Y	WO 03/062206 A (ARENA PHARMACEUTICALS, INC; TEEGARDEN, BRADLEY; DROUET, KEITH; JAYAKUM) 31 July 2003 (2003-07-31) page 3, paragraph 3; claims 1-40,129-166 -----	1-66
P,X	WO 2005/103011 A (ARENA PHARMACEUTICALS, INC; FRITCH, JOHN ROBERT; CARLETON, FIONA M; LA) 3 November 2005 (2005-11-03) page 50, line 20; claims page 51, line 11 claims; examples 2,3,5,6 -----	1-66
P,A	WO 2005/012254 A (ARENA PHARMACEUTICALS, INC; TEEGARDEN, BRADLEY; JAYAKUMAR, HONNAPPA; L) 10 February 2005 (2005-02-10) page 75 - page 90; claims; compounds 61-66,117,122-146,148-150 -----	1-66

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 28-39 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4409231	A	11-10-1983	CH 645100 A5 DE 2926517 A1 GB 2053210 A JP 2012223 B JP 56012370 A	14-09-1984 15-01-1981 04-02-1981 19-03-1990 06-02-1981
WO 9824785	A	11-06-1998	JP 2001508767 T	03-07-2001
WO 2004058722	A	15-07-2004	AU 2003297441 A1	22-07-2004
WO 03062206	A	31-07-2003	EP 1509505 A2	02-03-2005
WO 2005103011	A	03-11-2005	NONE	
WO 2005012254	A	10-02-2005	AT 313532 T AU 2004261582 A1 EP 1558582 A1 HK 1072943 A1	15-01-2006 10-02-2005 03-08-2005 10-03-2006